





# **Technology Deployment**







# **Vertical Profiling Time Domain Reflectometer**

### Problem

INEEL's Central Facilities Area (CFA) Remediation project needed to assess post-closure ground water infiltration at landfills II and III.

#### Baseline Technology

Intrusive excavation to install horizontal soil moisture sensors.

## Innovative Technology

The Vertical Profiling Time Domain Reflectometer is a non-intrusive soil moisture sensor that is pushed through a disposal site's engineered cover.

#### Comparison

This sensor provides a continuous vertical soil moisture profile, while the baseline approach is limited to discrete horizontal placements.

#### Benefits

This sensor enables the project to obtain vertical soil moisture profiles used to validate the performance of engineered covers.

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